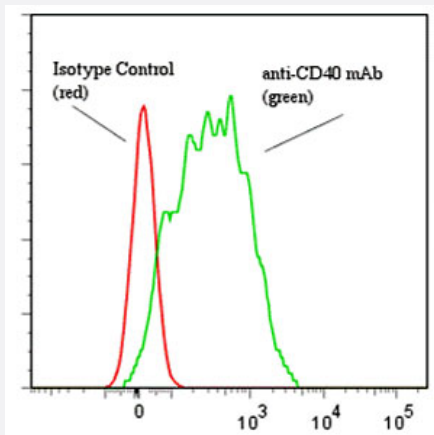


CD40 monoclonal antibody, clone EA-5

Catalog # MAB6912 Size 100 ug

Applications



Flow Cytometry

5 X 10⁵ cultured Raji human tumor cells were incubated 45 minutes on ice with 80 uL of CD40 monoclonal antibody, clone EA-5 (Cat # MAB6912) at 5 ug/mL. Cells were washed twice and incubated with Goat anti-Mouse IgG/FITC, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.64 log₁₀ fluorescent units when compared to a Mouse IgG1 negative control at a similar concentration.

Specification

Product Description	Mouse monoclonal antibody raised against native CD40.
Immunogen	Native purified CD40 from murine L cells.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM sodium phosphate buffer, 100 mM potassium Chloride, 150 mM NaCl, pH 7.5 (0.5 mg/mL gentamicin sulfate)
Storage Instruction	Store at 4°C.

Applications

- Flow Cytometry

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Gene Info — CD40

Entrez GeneID	958
Gene Name	CD40
Gene Alias	Bp50, CDW40, MGC9013, TNFRSF5, p50
Gene Description	CD40 molecule, TNF receptor superfamily member 5
Omim ID	109535 606843
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq]
Other Designations	B cell surface antigen CD40 B cell-associated molecule CD40 antigen CD40 antigen (TNF receptor superfamily member 5) CD40 type II isoform CD40L receptor OTTHUMP00000031699 OTTHUMP00000031700 nerve growth factor receptor-related B-lymphocyte activation mol

Publication Reference

- [Impact of co-blocking the costimulatory signals on immune-related genes after high-risk rabbit corneal allograft using 2nd-generation DNA sequencing technology.](#)

Zhao HX, Li XY, Guan WY, Han XT.

Genetics and Molecular Biology 2019 Apr; 42(2):472.

Application: Func, Rabbit, Rabbit corneal allograft

- [Follicular dendritic cells inhibit apoptosis in human B lymphocytes by a rapid and irreversible blockade of preexisting endonuclease.](#)

Lindhout E, Lakeman A, de Groot C.

The Journal of Experimental Medicine 1995 Jun; 181(6):1985.

Application: Func, Human, Human B lymphocytes

- [Cross-linking CD40 on human B cell precursors inhibits or enhances growth depending on the stage of development and the IL costimulus.](#)

Larson AW, LeBien TW.

The Journal of Immunology 1994 Jul; 153(2):584.

Application: Flow Cyt, Human, Splenic, Bone marrow CD10+/ surface p+ B cells

- [Soluble forms of CD40 inhibit biologic responses of human B cells.](#)

Fanslow WC, Anderson DM, Grabstein KH, Clark EA, Cosman D, Armitage RJ.

The Journal of Immunology 1992 Jul; 149(2):655.

Pathway

- [Allograft rejection](#)
- [Asthma](#)
- [Autoimmune thyroid disease](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Cytokine-cytokine receptor interaction](#)
- [Primary immunodeficiency](#)
- [Systemic lupus erythematosus](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Autoimmune Diseases](#)
- [Brain Ischemia](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Disease Progression](#)
- [Drug Eruptions](#)
- [Edema](#)
- [Endometriosis](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hashimoto Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis B](#)
- [Hodgkin Disease](#)

- [Hypertension](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Myasthenia Gravis](#)
- [Occupational Diseases](#)
- [Pemphigus](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rupture](#)
- [Stroke](#)
- [Thyroiditis](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Wegener Granulomatosis](#)
- [Werner syndrome](#)